課題1

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('Lenna.png'); % 原画像の入力  
imagesc(ORG); axis image; % 画像の表示

によって，原画像を読み込み，表示した結果を図1.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図1.1　原画像

原画像を1/2サンプリングするには，画像を1/2倍に縮小した後，2倍に拡大すればよい．なお，拡大する際には，単純補間するために「box」オプションを設定する．

IMG = imresize(ORG,0.5); % 画像の縮小  
IMG2 = imresize(IMG,2,'box'); % 画像の拡大

1/2サンプリングの結果を図1.2に示す．

![スクリーンショット が含まれている画像

自動的に生成された説明](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOOBguOChOOBiwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMTgAAJKSAAIAAAADMTgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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aGlqc3R1dnd4eXqDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uHi4+Tl5ufo6erx8vP09fb3+Pn6/8QAHwEAAwEBAQEBAQEBAQAAAAAAAAECAwQFBgcICQoL/8QAtREAAgECBAQDBAcFBAQAAQJ3AAECAxEEBSExBhJBUQdhcRMiMoEIFEKRobHBCSMzUvAVYnLRChYkNOEl8RcYGRomJygpKjU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6goOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4uPk5ebn6Onq8vP09fb3+Pn6/9oADAMBAAIRAxEAPwD3LQ9D0mbw9p0kul2TyPaxMzNboSxKDJJx1q//AMI/o3/QIsf/AAGT/Cjw/wD8izpn/XnF/wCgCqniO81e1NmmiQCZ5XbzBtUkADIxuZR1961lKTm1c46NGl7GL5Vsuhb/AOEf0b/oEWP/AIDJ/hR/wj+jf9Aix/8AAZP8K5ptQ8b/AMGnH8Y4f/j1QSap48Xppsf4pF/8dqrS/m/Er2dH+T8DrP8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrO8J6jrV9HeJ4ggjhmhkUIEAGVK55wxHXPeuhrNykna5ao0mr8i+4z/+Ef0b/oEWP/gMn+FH/CP6N/0CLH/wGT/CtCilzy7j9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQoo55dw9hS/lX3Iz/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wrQrm/wDhY/gj/ocvD/8A4NIP/iqOeXcPYUv5V9yNT/hH9G/6BFj/AOAyf4Uf8I/o3/QIsf8AwGT/AArPtvH3g+8uorWz8WaHPcTOI4ootShZ5GJwFUBskknAAroKOeXcPYUv5V9yM/8A4R/Rv+gRY/8AgMn+FH/CP6N/0CLH/wABk/wrQoo55dw9hS/lX3Iz/wDhH9G/6BFj/wCAyf4Uf8I/o3/QIsf/AAGT/CtCijnl3D2FL+VfcjP/AOEf0b/oEWP/AIDJ/hR/wj+jf9Aix/8AAZP8K0KjubmCztZbq8mjgt4UMkssrhUjUDJZieAABkk0c8u4ewpfyr7kU/8AhH9G/wCgRY/+Ayf4Uf8ACP6N/wBAix/8Bk/wq+rBlDKQVIyCD1qOW7t4JoIZ54opbhykKO4DSsFLEKD1IVWOB2BPajnl3D2FL+Vfcip/wj+jf9Aix/8AAZP8KP8AhH9G/wCgRY/+Ayf4VoUUc8u4ewpfyr7kZ/8Awj+jf9Aix/8AAZP8K8Z1yNIfEOoxxIqRpdSqqqMBQHOABXu1eF+IP+Rm1P8A6/Jf/QzXfgpNyd2fM8RU4QpQ5UlqeyeH/wDkWdM/684v/QBUl0wXUrMscDEmSe3y1H4f/wCRZ0z/AK84v/QBSagR/aNkrgFWEgIPf5a4ZfEz6ah/Bj6I5Tx58TrHwtp7CwAvbxsqNnKRnsWP9Kw/h7r7mSOyupC0l5bfaHLfxTBiXP4gj8qf4z+G9hqhiuLNpo9ku5rdOVPHp7H+dWLLwfDYx2c6ztHe2rh1degHQrj0IJFcWIcp4iEaSfLHVt9b6Hq4b2MMLN1n78tEl0sdror777UD/tR/+g1wXiK80eT4s6lZ+KvF11odnFpdrJawrrr2CO7PMHIAdQxwq5/Cu28NvvvNS/34/wD0GqVt4emf4oaxq17YxyWNxptrBBLJsbLo8xcY6jAZecYOa6uq/rocH2X8vzQsV5pVh4m0+MatqLxw6HJMjSXfmWskCvHmaRiSWk6Yc54Lc81Sb4p6dHbWd5PomuQ2GoXMVvZXslqgjuTI4VWA37lU53ZdVyOmTgU/xP4Tu9f8RXCRjyLG58PXWmm4Vl/dySOm0bc56AnpjiuX8UX3iJ/CWg6Tq3hxdMeLVtOgeY3cckc7LOmPICEtg7d3zhcKD1NOPvON+6/GTv8Ahb7xPRP0f4RX63+49Ms9at73XNS0qJJRPpwiMrMBtbzFLLtOcngc5ArFb4h6Z/Z2kXcdnqEv9sTy29pDHEpkZ492QRuwM7Dg5wOpwMkVZoPEOh+P9W1DTtE/tax1e3gCSRXMcRtpYgy4kDkEoQwOUDEYPynis3w74V1u0sfA66jZIs2lXV5Le7ZEIi8xZgpHPOS46ZIzz3qdw2N298eQ2t79hg0HWL+/ht1uLy0s4opHslboJG8wIWODhUZmOMgEYre0nVbPXNHtdT0yYTWl3EJYpACMqfUHkH1B5Fee6z4Q1C18davqsWna3qlpq3kyA6RrrWLwOiBCrp5sasuFBDAkjJGOld14Z0mDQ/DNjp1rZmyjhi/49zOZjGxO5h5h5bknmmtVdjejscw0/iWD4uaXDqmqQHTLu3vWt7C0jKqqxmLa8jE5dyH6YCjtnrXd1zup6VeXHxC0DU4Yd1nZ2l5HPJuA2NJ5OwYzk52N0HbmuioXwr+urAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAMjVfEtjo10tveQapI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図1.2 1/2サンプリング

同様に原画像を1/4サンプリングするには，画像を1/2倍に縮小した後，2倍に拡大すればよい．すなわち，

IMG = imresize(ORG,0.5); % 画像の縮小  
IMG2 = imresize(IMG,2,'box'); % 画像の拡大

とする．1/4サンプリングの結果を図1.3に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図1.3 1/4サンプリング

1/8から1/32サンプリングは，

IMG = imresize(ORG,0.5); % 画像の縮小  
IMG2 = imresize(IMG,2,'box'); % 画像の拡大

を繰り返す．サンプリングの結果を図1.4～1.6に示す．

![スクリーンショット が含まれている画像

自動的に生成された説明](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOOBguOChOOBiwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMjkAAJKSAAIAAAADMjkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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図1.4 1/8サンプリング

![スクリーンショット が含まれている画像

自動的に生成された説明](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOOBguOChOOBiwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADOTkAAJKSAAIAAAADOTkAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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図1.5 1/16サンプリング

![スクリーンショット が含まれている画像

自動的に生成された説明](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOOBguOChOOBiwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADMzMAAJKSAAIAAAADMzMAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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図1.6 1/32サンプリング

このようにサンプリング幅が大きくなると，モザイク状のサンプリング歪みが発生する．

課題2

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('kadai.jpg'); % 原画像の入力

ORG = rgb2gray(ORG); colormap(gray); colorbar;

imagesc(ORG); axis image; % 画像の表示

によって，原画像を読み込み，グレースケールに変換する. 表示した結果を図2.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図2.1　原画像をグレースケールに変換

白黒の濃淡を表現した画像をグレースケール画像という. グレースケール画像は, 1画素を8ビットで表し, 色情報は含まず明るさ情報のみを含んでいる. 8ビット画像では濃淡を2の8乗＝256階調まで表すことができ, 画素値0が黒、画素値255が白になる. つまり, 2階調にするにはこの階調を0～128, 129～255に分ければよい.

IMG = ORG>128; % 輝度値が128以上の画素を1，その他を0に変換

imagesc(IMG); colormap(gray); colorbar; axis image;

2階調にした結果を図2.2に示す.

スクリーンショット が含まれている画像

自動的に生成された説明

図2.2　2階調

同様に, 4階調にするには0～64,65～128,129～192,193～255というように分ければよい.

IMG0 = ORG>64;

IMG1 = ORG>128;

IMG2 = ORG>192;

IMG = IMG0 + IMG1 + IMG2;

4階調にした結果を図2.3に示す.

スクリーンショット が含まれている画像

自動的に生成された説明

図2.3　4階調

同様に, 8階調にするには0～32,33～64,65～96,97～128,129～160,161～192,193～224,225～255へと分ければよい。

IMG0 = ORG>32;

IMG1 = ORG>64;

IMG2 = ORG>96;

IMG3 = ORG>128;

IMG4 = ORG>160;

IMG5 = ORG>192;

IMG6 = ORG>224;

IMG = IMG0 + IMG1 + IMG2 + IMG3 + IMG4 + IMG5 + IMG6;

imagesc(IMG); colormap(gray); colorbar; axis image;

8階調にした結果を図2.4に示す.

スクリーンショット, モニター が含まれている画像

自動的に生成された説明

図2.4　8階調

このように階調を上げていくと濃淡の幅が広がる。

課題３

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('kadai.png'); % 原画像の入力

ORG= rgb2gray(ORG); % カラー画像を白黒濃淡画像へ変換

imagesc(ORG); colormap(gray); colorbar; % 画像の表示

によって，原画像を読み込み，グレースケールに変換する. 表示した結果を図3.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図3.1　グレースケール

輝度値が64以上の画素を1(白)，その他を0(黒)に変換する. その結果を図3.2に示す.

IMG = ORG > 64; % 輝度値が64以上の画素を1，その他を0に変換

imagesc(IMG); colormap(gray); colorbar;

スクリーンショット が含まれている画像

自動的に生成された説明

図3.2　輝度値が64以上の画素を1，その他を0に変換

輝度値が96以上の画素を1(白)，その他を0(黒)に変換する. その結果を図3.3に示す.

IMG = ORG > 96;

imagesc(IMG); colormap(gray); colorbar;

スクリーンショット が含まれている画像

自動的に生成された説明

図3.3　輝度値が96以上の画素を1，その他を0に変換

輝度値が128以上の画素を1(白)，その他を0(黒)に変換する. その結果を図3.4に示す.

IMG = ORG > 128;

imagesc(IMG); colormap(gray); colorbar;

スクリーンショット が含まれている画像

自動的に生成された説明

図3.4　輝度値が128以上の画素を1，その他を0に変換

輝度値が192以上の画素を1(白)，その他を0(黒)に変換する. その結果を図3.5に示す.

IMG = ORG > 192;

imagesc(IMG); colormap(gray); colorbar;

スクリーンショット が含まれている画像

自動的に生成された説明

図3.5　輝度値が192以上の画素を1，その他を0に変換

このように輝度値を上げていくと黒の範囲が増える。

課題４

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('kadai.png'); % 原画像の入力

ORG= rgb2gray(ORG); % カラー画像を白黒濃淡画像へ変換

imagesc(ORG); colormap(gray); colorbar; % 画像の表示

によって，原画像を読み込み，グレースケールに変換する. 表示した結果を図4.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図4.1　グレースケール

ヒストグラムで表示した結果を図4.2に示す.

imhist(ORG); % ヒストグラムの表示

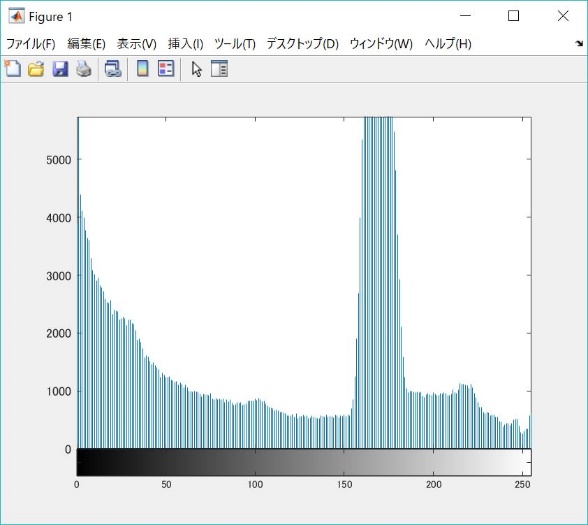


図4.2　ヒストグラム

この結果から使用した画像は輝度値が155～200の成分がかなり多く含まれていることがわかる.

また, そのことから, 155~200の輝度値が背景であることが考えられる.

課題５

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('kadai.jpg'); % 原画像の入力

ORG = rgb2gray(ORG); colormap(gray); colorbar;

imagesc(ORG); axis image; % 画像の表示

によって，原画像を読み込み，グレースケールに変換する. 表示した結果を図5.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図5.1　原画像をグレースケールに変換

まず, 画像データをヒストグラムで表し、0~1に振り分ける.

H = imhist(ORG); %ヒストグラムのデータを列ベクトルEに格納

myu\_T = mean(H);

max\_val = 0;

max\_thres = 1;

for i=1:255

つぎにヒストグラムを2つのクラス(対象物、背景)に分け, クラス内分散, クラス間分散を求め, クラス間分散/クラス内分散が最大になるようにする。

C1 = H(1:i); %ヒストグラムを2つのクラスに分ける

C2 = H(i+1:256);

n1 = sum(C1); %画素数の算出

n2 = sum(C2);

myu1 = mean(C1); %平均値の算出

myu2 = mean(C2);

sigma1 = var(C1); %分散の算出

sigma2 = var(C2);

sigma\_w = (n1 \*sigma1+n2\*sigma2)/(n1+n2); %クラス内分散の算出

sigma\_B = (n1 \*(myu1-myu\_T)^2+n2\*(myu2-myu\_T)^2)/(n1+n2); %クラス間分散の算出

if max\_val<sigma\_B/sigma\_w

max\_val = sigma\_B/sigma\_w;

max\_thres =i;

end;

end;

IMG = ORG > max\_thres;

imagesc(IMG); colormap(gray); colorbar;

その結果を図5.2に示す.

![スクリーンショット が含まれている画像

自動的に生成された説明](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOOBguOChOOBiwAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNTcAAJKSAAIAAAADNTcAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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/gS/zN2isL/hNNA/5/8A/wAgyf8AxNH/AAmmgf8AP/8A+QZP/iaPY1P5X9wfXsJ/z9j/AOBL/M3aKwv+E00D/n//APIMn/xNH/CaaB/z/wD/AJBk/wDiaPY1P5X9wfXsJ/z9j/4Ev8zdorC/4TTQP+f/AP8AIMn/AMTR/wAJpoH/AD//APkGT/4mj2NT+V/cH17Cf8/Y/wDgS/zN2isL/hNNA/5//wDyDJ/8TR/wmmgf8/8A/wCQZP8A4mj2NT+V/cH17Cf8/Y/+BL/M3aKwv+E00D/n/wD/ACDJ/wDE0f8ACaaB/wA//wD5Bk/+Jo9jU/lf3B9ewn/P2P8A4Ev8zdorC/4TTQP+f/8A8gyf/E0f8JpoH/P/AP8AkGT/AOJo9jU/lf3B9ewn/P2P/gS/zN2isL/hNNA/5/8A/wAgyf8AxNH/AAmmgf8AP/8A+QZP/iaPY1P5X9wfXsJ/z9j/AOBL/M3aKwv+E00D/n//APIMn/xNH/CaaB/z/wD/AJBk/wDiaPY1P5X9wfXsJ/z9j/4Ev8zdorC/4TTQP+f/AP8AIMn/AMTR/wAJpoH/AD//APkGT/4mj2NT+V/cH17Cf8/Y/wDgS/zN2isL/hNNA/5//wDyDJ/8TR/wmmgf8/8A/wCQZP8A4mj2NT+V/cH17Cf8/Y/+BL/M3aKwv+E00D/n/wD/ACDJ/wDE0f8ACaaB/wA//wD5Bk/+Jo9jU/lf3B9ewn/P2P8A4Ev8zdorC/4TTQP+f/8A8gyf/E0f8JpoH/P/AP8AkGT/AOJo9jU/lf3B9ewn/P2P/gS/zN2isL/hNNA/5/8A/wAgyf8AxNH/AAmmgf8AP/8A+QZP/iaPY1P5X9wfXsJ/z9j/AOBL/M3aKwv+E00D/n//APIMn/xNH/CaaB/z/wD/AJBk/wDiaPY1P5X9wfXsJ/z9j/4Ev8zdorC/4TTQP+f/AP8AIMn/AMTR/wAJpoH/AD//APkGT/4mj2NT+V/cH17Cf8/Y/wDgS/zN2isL/hNNA/5//wDyDJ/8TR/wmmgf8/8A/wCQZP8A4mj2NT+V/cH17Cf8/Y/+BL/M3aKwv+E00D/n/wD/ACDJ/wDE0f8ACaaB/wA//wD5Bk/+Jo9jU/lf3B9ewn/P2P8A4Ev8zdorC/4TTQP+f/8A8gyf/E0f8JpoH/P/AP8AkGT/AOJo9jU/lf3B9ewn/P2P/gS/zN2isL/hNNA/5/8A/wAgyf8AxNH/AAmmgf8AP/8A+QZP/iaPY1P5X9wfXsJ/z9j/AOBL/M3aKwv+E00D/n//APIMn/xNH/CaaB/z/wD/AJBk/wDiaPY1P5X9wfXsJ/z9j/4Ev8zdorC/4TTQP+f/AP8AIMn/AMTR/wAJpoH/AD//APkGT/4mj2NT+V/cH17Cf8/Y/wDgS/zN2isL/hNNA/5//wDyDJ/8TR/wmmgf8/8A/wCQZP8A4mj2NT+V/cH17Cf8/Y/+BL/M3aKwv+E00D/n/wD/ACDJ/wDE0f8ACaaB/wA//wD5Bk/+Jo9jU/lf3B9ewn/P2P8A4Ev8zdorC/4TTQP+f/8A8gyf/E0f8JpoH/P/AP8AkGT/AOJo9jU/lf3B9ewn/P2P/gS/zN2isL/hNNA/5/8A/wAgyf8AxNH/AAmmgf8AP/8A+QZP/iaPY1P5X9wfXsJ/z9j/AOBL/M3aKwv+E00D/n//APIMn/xNH/CaaB/z/wD/AJBk/wDiaPY1P5X9wfXsJ/z9j/4Ev8zdorC/4TTQP+f/AP8AIMn/AMTR/wAJpoH/AD//APkGT/4mj2NT+V/cH17Cf8/Y/wDgS/zN2isL/hNNA/5//wDyDJ/8TR/wmmgf8/8A/wCQZP8A4mj2NT+V/cH17Cf8/Y/+BL/M3aKwv+E00D/n/wD/ACDJ/wDE0f8ACaaB/wA//wD5Bk/+Jo9jU/lf3B9ewn/P2P8A4Ev8zdorC/4TTQP+f/8A8gyf/E0f8JpoH/P/AP8AkGT/AOJo9jU/lf3B9ewn/P2P/gS/zN2isL/hNNA/5/8A/wAgyf8AxNH/AAmmgf8AP/8A+QZP/iaPY1P5X9wfXsJ/z9j/AOBL/M3aKwv+E00D/n//APIMn/xNH/CaaB/z/wD/AJBk/wDiaPY1P5X9wfXsJ/z9j/4Ev8zdorC/4TTQP+f/AP8AIMn/AMTR/wAJpoH/AD//APkGT/4mj2NT+V/cH17Cf8/Y/wDgS/zN2isL/hNNA/5//wDyDJ/8TR/wmmgf8/8A/wCQZP8A4mj2NT+V/cH17Cf8/Y/+BL/M3aKwv+E00D/n/wD/ACDJ/wDE0f8ACaaB/wA//wD5Bk/+Jo9jU/lf3B9ewn/P2P8A4Ev8zdorC/4TTQP+f/8A8gyf/E0f8JpoH/P/AP8AkGT/AOJo9jU/lf3B9ewn/P2P/gS/zN2isL/hNNA/5/8A/wAgyf8AxNH/AAmmgf8AP/8A+QZP/iaPY1P5X9wfXsJ/z9j/AOBL/M3aKwv+E00D/n//APIMn/xNH/CaaB/z/wD/AJBk/wDiaPY1P5X9wfXsJ/z9j/4Ev8zdorC/4TTQP+f/AP8AIMn/AMTR/wAJpoH/AD//APkGT/4mj2NT+V/cH17Cf8/Y/wDgS/zN2isL/hNNA/5//wDyDJ/8TR/wmmgf8/8A/wCQZP8A4mj2NT+V/cH17Cf8/Y/+BL/M3aKwv+E00D/n/wD/ACDJ/wDE0f8ACaaB/wA//wD5Bk/+Jo9jU/lf3B9ewn/P2P8A4Ev8zdorC/4TTQP+f/8A8gyf/E0f8JpoH/P/AP8AkGT/AOJo9jU/lf3B9ewn/P2P/gS/zN2isL/hNNA/5/8A/wAgyf8AxNH/AAmmgf8AP/8A+QZP/iaPY1P5X9wfXsJ/z9j/AOBL/M3aKwv+E00D/n//APIMn/xNH/CaaB/z/wD/AJBk/wDiaPY1P5X9wfXsJ/z9j/4Ev8zdorC/4TTQP+f/AP8AIMn/AMTR/wAJpoH/AD//APkGT/4mj2NT+V/cH17Cf8/Y/wDgS/zN2isL/hNNA/5//wDyDJ/8TR/wmmgf8/8A/wCQZP8A4mj2NT+V/cH17Cf8/Y/+BL/M3aKwv+E00D/n/wD/ACDJ/wDE0f8ACaaB/wA//wD5Bk/+Jo9jU/lf3B9ewn/P2P8A4Ev8zdrxrXP+Rh1H/r6l/wDQzXpH/CaaB/z/AP8A5Bk/+JrzPVZ47nWb2eFt0ctxI6NjGQWJBruwcJRk+ZWPm8/xFGtSgqc09ejTP//Z)

図5.2　判別分析法

このやり方が判別分析法である. 今回は対象物と背景の濃度値が似通っていたため, あまりうまく対象物と背景で分けられていない.

課題６

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('kadai.jpg'); % 原画像の入力

ORG = rgb2gray(ORG); colormap(gray); colorbar;

imagesc(ORG); axis image; % 画像の表示

によって，原画像を読み込み，グレースケールに変換する. 表示した結果を図6.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図6.1　グレースケール

輝度値が128以上の画素を1(白)，その他を0(黒)に変換する. その結果を図6.2に示す.

IMG = ORG>128; % 128による二値化

imagesc(IMG); colormap(gray); colorbar; % 画像の表示

スクリーンショット が含まれている画像

自動的に生成された説明

図6.2　輝度値が64以上の画素を1，その他を0に変換

ディザ法を使った2値化をする. その結果を図6.3に示す.

IMG = dither(ORG); % ディザ法による二値化

imagesc(IMG); colormap(gray); colorbar; % 画像の表示

スクリーンショット, テキスト が含まれている画像

自動的に生成された説明

図6.3　ディザ法

ディザ法を使ったほうが、輝度値による2値化よりも濃淡を感じ取りやすい.

課題7

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('kadai.jpg'); % 原画像の入力

ORG = rgb2gray(ORG); colormap(gray); colorbar;

imagesc(ORG); axis image; % 画像の表示

によって，原画像を読み込み，グレースケールに変換する. 表示した結果を図7.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図7.1　グレースケール

ヒストグラムを表示する. その結果を図7.2に示す.

imhist(ORG); % 濃度ヒストグラムを生成、表示

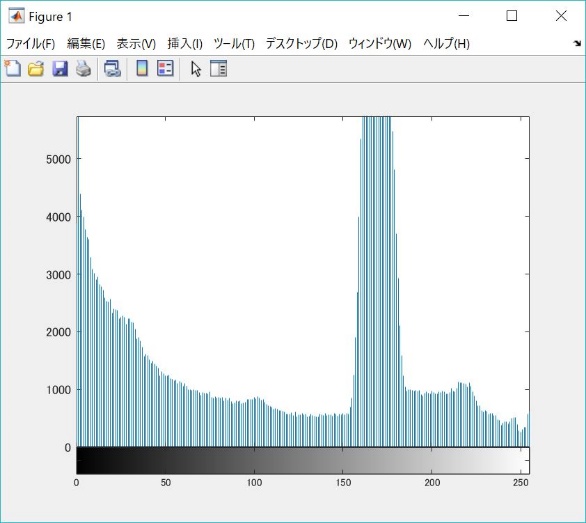


図7.2　ヒストグラム

ダイナミックレンジとは、アナライザの最大入力パワー・レベルと最小測定パワー・レベル（ノイズ・フロア）の差分を示す.よって, 濃度値の最小と最大を求める. 求めた結果を図7.3に示す.

ORG = double(ORG);

mn = min(ORG(:)); % 濃度値の最小値を算出

mx = max(ORG(:)); % 濃度値の最大値を算出

ORG = (ORG-mn)/(mx-mn)\*255;

imagesc(ORG); colormap(gray); colorbar; % 画像の表示

スクリーンショット が含まれている画像

自動的に生成された説明

図7.3　ダイナミックレンジの拡大

また, 計算した画像を8ビットで表現し, ヒストグラムで表した結果を図7.4に示す.

ORG = uint8(ORG);

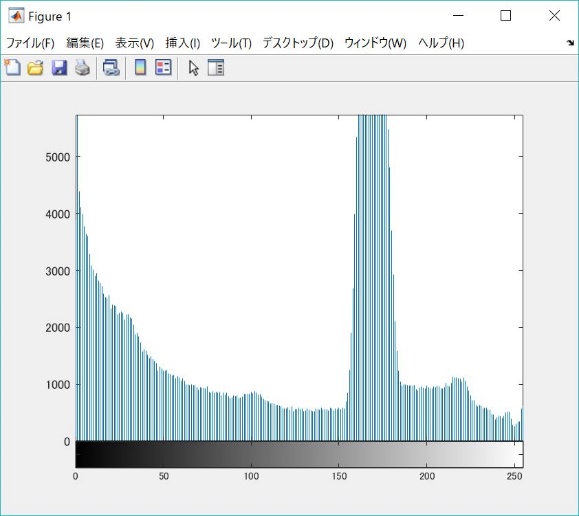


図7.4　ダイナミックレンジの拡大を8ビットで表したときのヒストグラム

課題８

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('kadai.jpg'); % 原画像の入力

ORG = rgb2gray(ORG); colormap(gray); colorbar;

imagesc(ORG); axis image; % 画像の表示

によって，原画像を読み込み，グレースケールに変換する. 表示した結果を図8.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図8.1　グレースケール

閾値128で2値化する. その結果を図8.2に示す.

IMG = ORG > 128; % 閾値128で二値化

スクリーンショット が含まれている画像

自動的に生成された説明

図8.2　 閾値128で2値化

bwlabeln(IMG) は, IMGの連結要素に対するラベルを含むラベル行列を返す.jet は, 現在の Figure のカラーマップと同じ行数をもつ 3 列配列として jet カラーマップを返す.

ラベリングした行列にjetで色付けしたものを図8.3に示す.

IMG = bwlabeln(IMG);

imagesc(IMG); colormap(jet); colorbar; % 画像の表示

スクリーンショット が含まれている画像

自動的に生成された説明

図8.3　ラベリングした行列にjetで色付け

課題９

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('kadai.jpg'); % 原画像の入力

ORG = rgb2gray(ORG); colormap(gray); colorbar;

imagesc(ORG); axis image; % 画像の表示

によって，原画像を読み込み，グレースケールに変換する. 表示した結果を図9.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図9.1　グレースケール

既定のノイズ密度 0.05 のごま塩ノイズを追加し, 0.02のノイズ密度を付加する. その結果を図9.2に示す.

ORG = imnoise(ORG,'salt & pepper',0.02); % ノイズ添付

imagesc(ORG); colormap(gray); colorbar; % 画像の表示

スクリーンショット が含まれている画像

自動的に生成された説明

図9.2　 既定のノイズ密度 0.05 のごま塩ノイズを追加し, 0.02のノイズ密度を付加

2次元のサイズ3の平均化フィルターをIMGに返す. その結果を図9.3に示す.

IMG = filter2(fspecial('average',3),ORG); % 平滑化フィルタで雑音除去

imagesc(IMG); colormap(gray); colorbar; % 画像の表示

スクリーンショット が含まれている画像

自動的に生成された説明

図9.3　 平滑化フィルタで雑音除去

メディアンフィルタで雑音除去する. その結果を図9.4に示す.

IMG = medfilt2(ORG,[3 3]); % メディアンフィルタで雑音除去

imagesc(IMG); colormap(gray); colorbar; % 画像の表示

スクリーンショット が含まれている画像

自動的に生成された説明

図9.4　 メディアンフィルタで雑音除去

フィルタの設計をして, そのフィルタを適用する. その結果を図9.5に示す.

f=[0,-1,0;-1,5,-1;0,-1,0]; % フィルタの設計

IMG = filter2(f,IMG,'same'); % フィルタの適用

imagesc(IMG); colormap(gray); colorbar; % 画像の表示

スクリーンショット が含まれている画像

自動的に生成された説明

図9.5　 メディアンフィルタで雑音除去

平滑化フィルタだと, ノイズが背景などにみられるが, メディアンフィルタだとそこまでひどいノイズは見られない。

課題10

標準画像「kadai」を原画像とする．この画像は縦640pix，横640pixによる正方形のディジタルカラー画像である．

ORG=imread('kadai.jpg'); % 原画像の入力

ORG = rgb2gray(ORG); colormap(gray); colorbar;

imagesc(ORG); axis image; % 画像の表示

によって，原画像を読み込み，グレースケールに変換する. 表示した結果を図10.1に示す．

スクリーンショット が含まれている画像

自動的に生成された説明

図10.1　グレースケール

プレウィット法を適用する. その結果を図10.2に示す.

IMG = edge(ORG,'prewitt'); % エッジ抽出（プレウィット法）

imagesc(IMG); colormap('gray'); colorbar;% 画像表示

スクリーンショット が含まれている画像

自動的に生成された説明

図10.2　プレウィット法

ソベル法を適用する. その結果を図10.3に示す.

IMG = edge(ORG,'sobel'); % エッジ抽出（ソベル法）

imagesc(IMG); colormap('gray'); colorbar;% 画像表示

スクリーンショット が含まれている画像

自動的に生成された説明

図10.3　ソベル法

キャニー法を適用する. その結果を図10.4に示す.

IMG = edge(ORG,'canny'); % エッジ抽出（キャニー法）

imagesc(IMG); colormap('gray'); colorbar;% 画像表示

スクリーンショット が含まれている画像

自動的に生成された説明

図10.4　キャニー法

プレウィット法とソベル法はあまり大差が見られなかったが, キャニー法は境界線が多く抽出された.